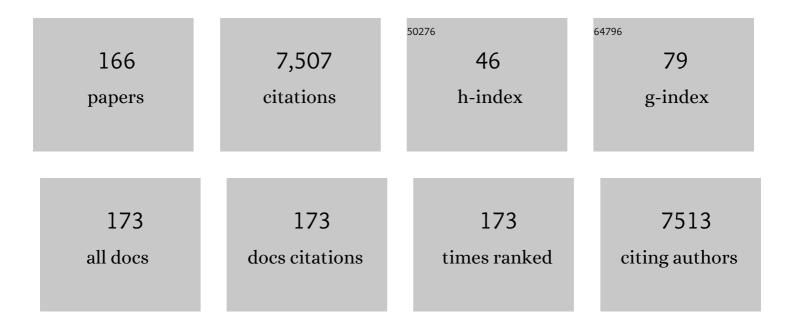
Leon Lefferts

List of Publications by Year in descending order

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LEON LEFEPTS

#	Article	IF	CITATIONS
1	The 2020 plasma catalysis roadmap. Journal Physics D: Applied Physics, 2020, 53, 443001.	2.8	362
2	Drop Impact upon Micro- and Nanostructured Superhydrophobic Surfaces. Langmuir, 2009, 25, 12293-12298.	3.5	279
3	Sustainable hydrogen from bio-oil—Steam reforming of acetic acid as a model oxygenate. Journal of Catalysis, 2004, 227, 101-108.	6.2	268
4	Light at the interface: the potential of attenuated total reflection infrared spectroscopy for understanding heterogeneous catalysis in water. Chemical Society Reviews, 2010, 39, 4643.	38.1	267
5	Catalytic pyrolysis of microalgae to high-quality liquid bio-fuels. Biomass and Bioenergy, 2011, 35, 3199-3207.	5.7	263
6	Plasma-driven catalysis: green ammonia synthesis with intermittent electricity. Green Chemistry, 2020, 22, 6258-6287.	9.0	163
7	How water droplets evaporate on a superhydrophobic substrate. Physical Review E, 2011, 83, 026306.	2.1	159
8	Bifunctional catalysts for single-stage water–gas shift reaction in fuel cell applications.Part 1. Effect of the support on the reaction sequence. Journal of Catalysis, 2007, 251, 153-162.	6.2	157
9	Humin based by-products from biomass processing as a potential carbonaceous source for synthesis gas production. Green Chemistry, 2015, 17, 959-972.	9.0	153
10	Steam reforming of acetic acid as a biomass derived oxygenate: Bifunctional pathway for hydrogen formation over Pt/ZrO2 catalysts. Journal of Catalysis, 2006, 243, 263-269.	6.2	152
11	Catalyst deactivation during steam reforming of acetic acid over Pt/ZrO2. Chemical Engineering Journal, 2006, 120, 133-137.	12.7	148
12	Structure-dependent activity of CeO2 supported Ru catalysts for CO2 methanation. Journal of Catalysis, 2018, 367, 171-180.	6.2	146
13	Exposed Surfaces on Shape ontrolled Ceria Nanoparticles Revealed through ACâ€₹EM and Water–Gas Shift Reactivity. ChemSusChem, 2013, 6, 1898-1906.	6.8	134
14	Preparation and Application of Carbon-Nanofiber Based Microstructured Materials as Catalyst Supports. Industrial & Engineering Chemistry Research, 2007, 46, 3968-3978.	3.7	133
15	Review: monoclinic zirconia, its surface sites and their interaction with carbon monoxide. Catalysis Science and Technology, 2015, 5, 3473-3490.	4.1	130
16	A bifunctional catalyst for the single-stage water–gas shift reaction in fuel cell applications. Part 2. Roles of the support and promoter on catalyst activity and stability. Journal of Catalysis, 2007, 251, 163-171.	6.2	119
17	Building microscopic soccer balls with evaporating colloidal fakir drops. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 16455-16458.	7.1	113
18	Catalytic upgrading of biomass pyrolysis vapours using faujasite zeolite catalysts. Biomass and Bioenergy, 2013, 48, 100-110.	5.7	110

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19	Activation of O2 and CH4 on yttrium-stabilized zirconia for the partial oxidation of methane to synthesis gas. Journal of Catalysis, 2005, 233, 434-441.	6.2	102
20	Vibrationally Excited Activation of N ₂ in Plasma-Enhanced Catalytic Ammonia Synthesis: A Kinetic Analysis. ACS Sustainable Chemistry and Engineering, 2019, 7, 17515-17522.	6.7	96
21	From the Birkeland–Eyde process towards energy-efficient plasma-based NO _X synthesis: a techno-economic analysis. Energy and Environmental Science, 2021, 14, 2520-2534.	30.8	96
22	Oxidative conversion of propane over lithium-promoted magnesia catalyst I. Kinetics and mechanism. Journal of Catalysis, 2003, 218, 296-306.	6.2	94
23	Selective reduction of NO to N2 in the presence of oxygen over supported silver catalysts. Applied Catalysis B: Environmental, 2002, 37, 205-216.	20.2	90
24	Valorization of Huminâ€Based Byproducts from Biomass Processing—A Route to Sustainable Hydrogen. ChemSusChem, 2013, 6, 1651-1658.	6.8	86
25	Immobilization of a layer of carbon nanofibres (CNFs) on Ni foam: A new structured catalyst support. Journal of Materials Chemistry, 2005, 15, 1946.	6.7	85
26	Mechanistic aspects of the formation of carbon-nanofibers on the surface of Ni foam: A new microstructured catalyst support. Journal of Catalysis, 2006, 239, 460-469.	6.2	81
27	Aqueous Phase Reforming of ethylene glycol – Role of intermediates in catalyst performance. Journal of Catalysis, 2012, 292, 239-245.	6.2	77
28	In situ ATR-IR study of CO adsorption and oxidation over Pt/Al2O3 in gas and aqueous phase: Promotion effects by water and pH. Journal of Catalysis, 2007, 246, 66-73.	6.2	76
29	Ceria Nanocatalysts: Shape Dependent Reactivity and Formation of OH. ChemCatChem, 2013, 5, 479-489.	3.7	76
30	Role of Re in Pt–Re/TiO2 catalyst for water gas shift reaction: A mechanistic and kinetic study. Applied Catalysis B: Environmental, 2008, 80, 129-140.	20.2	73
31	Design of a stable steam reforming catalyst—A promising route to sustainable hydrogen from biomass oxygenates. Applied Catalysis B: Environmental, 2009, 90, 38-44.	20.2	72
32	Steam reforming of phenol over Ni-based catalysts – A comparative study. Applied Catalysis B: Environmental, 2011, 106, 280-286.	20.2	71
33	Effects of Morphology of Cerium Oxide Catalysts for Reverse Water Gas Shift Reaction. Catalysis Letters, 2016, 146, 770-777.	2.6	66
34	Reaction scheme of partial oxidation of methane to synthesis gas over yttrium-stabilized zirconia. Journal of Catalysis, 2004, 225, 388-397.	6.2	63
35	How Carbon-Nano-Fibers attach to Ni foam. Carbon, 2008, 46, 1638-1647.	10.3	60
36	Growing a carbon nano-fiber layer on a monolith support; effect of nickel loading and growth conditions. Journal of Materials Chemistry, 2004, 14, 1590.	6.7	58

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37	Effect of surface composition of yttrium-stabilized zirconia on partial oxidation of methane to synthesis gas. Journal of Catalysis, 2005, 230, 291-300.	6.2	55
38	Water and carbon oxides on monoclinic zirconia: experimental and computational insights. Physical Chemistry Chemical Physics, 2014, 16, 20650-20664.	2.8	55
39	Preparation of well-dispersed Pt/SiO2 catalysts using low-temperature treatments. Applied Catalysis A: General, 2006, 301, 51-58.	4.3	53
40	Thin layer of carbon-nano-fibers (CNFs) as catalyst support for fast mass transfer in hydrogenation of nitrite. Applied Catalysis A: General, 2010, 383, 24-32.	4.3	53
41	Comparative study of steam reforming of methane, ethane and ethylene on Pt, Rh and Pd supported on yttrium-stabilized zirconia. Applied Catalysis A: General, 2007, 332, 310-317.	4.3	52
42	The importance of acid site locations for n-butene skeletal isomerization on ferrierite. Journal of Molecular Catalysis A, 2000, 162, 147-157.	4.8	51
43	Oxidative conversion of propane over lithium-promoted magnesia catalyst II. Active site characterization and hydrocarbon activation. Journal of Catalysis, 2003, 218, 307-314.	6.2	50
44	Formation of high surface area Li/MgO—Efficient catalyst for the oxidative dehydrogenation/cracking of propane. Applied Catalysis A: General, 2006, 310, 105-113.	4.3	50
45	Sustainable route to hydrogen – Design of stable catalysts for the steam gasification of biomass related oxygenates. Applied Catalysis B: Environmental, 2009, 88, 59-65.	20.2	49
46	Interplay of Bonding and Geometry of the Adsorption Complexes of Light Alkanes within Cationic Faujasites. Combined Spectroscopic and Computational Study. Journal of Physical Chemistry B, 2006, 110, 22618-22627.	2.6	48
47	The influence of water and pH on adsorption and oxidation of CO on Pd/Al ₂ O ₃ —an investigation by attenuated total reflection infrared spectroscopy. Physical Chemistry Chemical Physics, 2009, 11, 641-649.	2.8	48
48	Ru decorated carbon nanotubes – a promising catalyst for reforming bio-based acetic acid in the aqueous phase. Green Chemistry, 2014, 16, 864.	9.0	48
49	An in situ ATR-IR spectroscopy study of aluminas under aqueous phase reforming conditions. Physical Chemistry Chemical Physics, 2015, 17, 23795-23804.	2.8	46
50	Steam reforming of acetic acid – A major component in the volatiles formed during gasification of humin. Applied Catalysis B: Environmental, 2015, 163, 74-82.	20.2	46
51	Oxidative conversion of light alkanes to olefins over alkali promoted oxide catalysts. Applied Catalysis A: General, 2002, 227, 287-297.	4.3	45
52	CO Adsorption and Oxidation at the Catalystâ^'Water Interface:  An Investigation by Attenuated Total Reflection Infrared Spectroscopy. Langmuir, 2006, 22, 1079-1085.	3.5	43
53	Supported Pd Catalysts Prepared via Colloidal Method: The Effect of Acids. ACS Catalysis, 2013, 3, 2341-2352.	11.2	43
54	Towards Stable Catalysts for Aqueous Phase Conversion of Ethylene Glycol for Renewable Hydrogen. ChemSusChem, 2013, 6, 1717-1723.	6.8	43

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55	Role of Surface Defects in Activation of O2and N2O on ZrO2and Yttrium-Stabilized ZrO2. Journal of Physical Chemistry B, 2005, 109, 9550-9555.	2.6	42
56	Catalytic oxidative cracking of hexane as a route to olefins. Applied Catalysis A: General, 2010, 372, 167-174.	4.3	42
57	Ruthenium catalyst on carbon nanofiber support layers for use in silicon-based structured microreactors. Part II: Catalytic reduction of bromate contaminants in aqueous phase. Applied Catalysis B: Environmental, 2011, 102, 243-250.	20.2	41
58	lsomerization of Linear Butenes to iso-Butene over Medium Pore Zeolites. Journal of Catalysis, 2001, 197, 68-80.	6.2	40
59	Nature of nitrogen specie in coke and their role in NOx formation during FCC catalyst regeneration. Applied Catalysis B: Environmental, 2005, 59, 205-211.	20.2	40
60	Single stage water gas shift conversion over Pt/TiO2—Problem of catalyst deactivation. Applied Catalysis A: General, 2008, 338, 66-71.	4.3	40
61	Effect of pH on the Nitrite Hydrogenation Mechanism over Pd/Al ₂ O ₃ and Pt/Al ₂ O ₃ : Details Obtained with ATR-IR Spectroscopy. Journal of Physical Chemistry C, 2011, 115, 1186-1194.	3.1	40
62	Beyond Haber-Bosch: The renaissance of the Claude process. International Journal of Hydrogen Energy, 2021, 46, 21566-21579.	7.1	37
63	Carbon Nanotubes: A Promising Catalyst Support Material for Supercritical Water Gasification of Biomass Waste. ChemCatChem, 2012, 4, 2068-2074.	3.7	36
64	Plasma-catalytic ammonia synthesis beyond thermal equilibrium on Ru-based catalysts in non-thermal plasma. Catalysis Science and Technology, 2021, 11, 2834-2843.	4.1	36
65	Steam- and autothermal-reforming of n-butanol over Rh/ZrO2 catalyst. Catalysis Today, 2015, 244, 47-57.	4.4	34
66	Steam reforming of n -butanol over Rh/ZrO 2 catalyst: role of 1-butene and butyraldehyde. Applied Catalysis B: Environmental, 2016, 182, 33-46.	20.2	34
67	Catalytic Performance of Ni/CeO2/X-ZrO2 (X = Ca, Y) Catalysts in the Aqueous-Phase Reforming of Methanol. Nanomaterials, 2019, 9, 1582.	4.1	34
68	In Situ Attenuated Total Reflection Infrared (ATR-IR) Study of the Adsorption of NO ₂ ⁻ , NH ₂ OH, and NH ₄ ⁺ on Pd/Al ₂ O ₃ and Pt/Al ₂ O ₃ . Langmuir, 2008, 24, 869-879.	3.5	32
69	Catalytic Conversion of Biomass Pyrolysis Vapours over Sodiumâ€Based Catalyst: A Study on the State of Sodium on the Catalyst. ChemCatChem, 2015, 7, 1833-1840.	3.7	31
70	Non-conventional oxidation catalysis. Catalysis Today, 2005, 100, 63-69.	4.4	30
71	Partial oxidation of methane by O2 and N2O to syngas over yttrium-stabilized ZrO2. Catalysis Today, 2006, 112, 82-85.	4.4	30
72	The effects of morphology of cerium oxide catalysts for dehydrogenation of ethylbenzene to styrene. Applied Catalysis A: General, 2015, 505, 354-364.	4.3	30

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73	Steam reforming of biomass based oxygenates—Mechanism of acetic acid activation on supported platinum catalysts. Journal of Catalysis, 2008, 257, 229-231.	6.2	28
74	Growth of carbon nanofiber coatings on nickel thin films on fused silica by catalytic thermal chemical vapor deposition: On the use of titanium, titanium–tungsten and tantalum as adhesion layers. Surface and Coatings Technology, 2009, 203, 3435-3441.	4.8	28
75	Mechanistic Investigation of the Heterogeneous Hydrogenation of Nitrite over Pt/Al2O3 by Attenuated Total Reflection Infrared Spectroscopy. Journal of Physical Chemistry C, 2009, 113, 2503-2511.	3.1	28
76	Feasibility Study of Plasma-Catalytic Ammonia Synthesis for Energy Storage Applications. Catalysts, 2020, 10, 999.	3.5	28
77	Presence of Lithium Ions in MgO Lattice: Surface Characterization by Infrared Spectroscopy and Reactivity towards Oxidative Conversion of Propane. Langmuir, 2008, 24, 8220-8228.	3.5	27
78	In situ ATR-IR studies in aqueous phase reforming of hydroxyacetone on Pt/ZrO2 and Pt/AlO(OH) catalysts: The role of aldol condensation. Applied Catalysis B: Environmental, 2018, 232, 454-463.	20.2	27
79	Improving the Energy Yield of Plasma-Based Ammonia Synthesis with In Situ Adsorption. ACS Sustainable Chemistry and Engineering, 2022, 10, 1994-2000.	6.7	27
80	Applied Molecular Simulations over FER-, TON-, and AEL-Type Zeolites. Journal of Catalysis, 2001, 203, 351-361.	6.2	26
81	Stable and Efficient Pt–Re/TiO ₂ catalysts for Waterâ€Gasâ€Shift: On the Effect of Rhenium. ChemCatChem, 2013, 5, 557-564.	3.7	26
82	Adsorbed species on Pd catalyst during nitrite hydrogenation approaching complete conversion. Journal of Catalysis, 2016, 337, 102-110.	6.2	26
83	Effect of chlorine on performance of Pd catalysts prepared via colloidal immobilization. Catalysis Today, 2017, 297, 308-315.	4.4	26
84	Mechanism of nitrite hydrogenation over Pd/γ-Al2O3 according a rigorous kinetic study. Journal of Catalysis, 2020, 383, 124-134.	6.2	26
85	Ceramic microfluidic monoliths by ice templating. Microporous and Mesoporous Materials, 2010, 134, 216-219.	4.4	25
86	Carbon nanotube/carbon nanofiber growth from industrial by-product gases on low- and high-alloy steels. Carbon, 2012, 50, 4722-4731.	10.3	25
87	Nonâ€oxidative methane coupling to C ₂ hydrocarbons in a microwave plasma reactor. Plasma Processes and Polymers, 2018, 15, 1800087.	3.0	25
88	Comparison of Ag/Al2O3 and Ag-ZSM5 catalysts for the selective reduction of NO with propylene in the presence of oxygen. Applied Catalysis B: Environmental, 2003, 42, 25-34.	20.2	24
89	1921–2021: A Century of Renewable Ammonia Synthesis. Sustainable Chemistry, 2022, 3, 149-171.	4.7	24
90	Ruthenium catalyst on carbon nanofiber support layers for use in silicon-based structured microreactors, Part I: Preparation and characterization. Applied Catalysis B: Environmental, 2011, 102, 232-242.	20.2	21

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91	Investigation of Ce–Zr Oxideâ€Supported Ni Catalysts in the Steam Reforming of <i>meta</i> â€Cresol as a Model Component for Bioâ€Derived Tar. ChemCatChem, 2015, 7, 468-478.	3.7	21
92	Ni in CNFs: Highly Active for Nitrite Hydrogenation. ACS Catalysis, 2016, 6, 5432-5440.	11.2	21
93	Plasma Catalysis: Distinguishing between Thermal and Chemical Effects. Catalysts, 2019, 9, 185.	3.5	21
94	Adsorption and Activation of Water on Cuboctahedral Rhodium and Platinum Nanoparticles. Journal of Physical Chemistry C, 2017, 121, 4324-4331.	3.1	20
95	Propane selective oxidation on alkaline earth exchanged zeolite Y: room temperature in situ IR study. Physical Chemistry Chemical Physics, 2003, 5, 4407.	2.8	19
96	Mechanistic Aspects of Catalytic Steam Reforming of Biomass-related Oxygenates. Topics in Catalysis, 2008, 49, 68-72.	2.8	19
97	Effect of Ca2+Position in Zeolite Y on Selective Oxidation of Propane at Room Temperature. Journal of Physical Chemistry B, 2004, 108, 15728-15734.	2.6	18
98	Catalytic oxidative cracking as a route to olefins: Oxidative conversion of hexane over MoO3-Li/MgO. Catalysis Today, 2010, 157, 345-350.	4.4	18
99	Catalyst-assisted DBD plasma for coupling of methane: Minimizing carbon-deposits by structured reactors. Catalysis Today, 2021, 369, 210-220.	4.4	18
100	Oxidative Conversion of Propane in a Microreactor in the Presence of Plasma over MgO-Based Catalysts:  An Experimental Study. Journal of Physical Chemistry C, 2008, 112, 4267-4274.	3.1	17
101	Egg-shell membrane reactors for nitrite hydrogenation: Manipulating kinetics and selectivity. Applied Catalysis B: Environmental, 2018, 224, 276-282.	20.2	17
102	Competitive Adsorption of Nitrite and Hydrogen on Palladium during Nitrite Hydrogenation. ChemCatChem, 2018, 10, 3770-3776.	3.7	17
103	Effect of oxygen on formic acid decomposition over Pd catalyst. Journal of Catalysis, 2021, 394, 342-352.	6.2	17
104	Formation of M2+(O2)(C3H8) Species in Alkaline-Earth-Exchanged Y Zeolite during Propane Selective Oxidation. Journal of Physical Chemistry B, 2005, 109, 18361-18368.	2.6	16
105	Alkane Activation at Ambient Temperatures: Unusual Selectivities, Cĩ£¿C, Cĩ£¿H Bond Scission versus Cĩ£¿C Bond Coupling. ChemPhysChem, 2008, 9, 533-537.	2.1	16
106	Production of C ₃ /C ₄ Olefins from <i>n</i> Hexane: Conceptual Design of a Catalytic Oxidative Cracking Process and Comparison to Steam Cracking. Industrial & Engineering Chemistry Research, 2011, 50, 342-351.	3.7	16
107	On the mechanism for the plasma-activated N ₂ dissociation on Ru surfaces. Journal Physics D: Applied Physics, 2021, 54, 393002.	2.8	16
108	Influence of the Catalyst Particle Size on the Aqueous Phase Reforming of n-Butanol Over Rh/ZrO2. Frontiers in Chemistry, 2020, 8, 17.	3.6	16

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109	Selective reduction of NO with propylene in the presence of oxygen over Co- and Pt-Co promoted HY. Applied Catalysis B: Environmental, 2002, 39, 233-246.	20.2	15
110	Catalyst Activation by Microplasma for Carbon Nanofiber Synthesis in a Microreactor. IEEE Transactions on Plasma Science, 2009, 37, 985-992.	1.3	15
111	Influence of internal diffusion on selective hydrogenation of 4-carboxybenzaldehyde over palladium catalysts supported on carbon nanofiber coated monolith. Applied Catalysis A: General, 2015, 498, 222-229.	4.3	15
112	Influence of potassium on the competition between methane and ethane in steam reforming over Pt supported on yttrium-stabilized zirconia. Applied Catalysis A: General, 2008, 346, 90-95.	4.3	14
113	On-chip microplasma reactors using carbon nanofibres and tungsten oxide nanowires as electrodes. Journal Physics D: Applied Physics, 2008, 41, 194009.	2.8	14
114	Lithium ions incorporation in MgO for oxidative dehydrogenation/cracking of propane: Active site characterization and mechanism of regeneration. Catalysis Today, 2009, 145, 19-26.	4.4	14
115	ATR-IR spectroscopic cell for in situ studies at solid-liquid interface at elevated temperatures and pressures. Catalysis Today, 2017, 283, 185-194.	4.4	14
116	Catalytic Oxidative Cracking of Light Alkanes to Alkenes. European Journal of Inorganic Chemistry, 2018, 2018, 1956-1968.	2.0	14
117	In situ CVD of carbon nanofibers in a microreactor. Catalysis Today, 2010, 150, 128-132.	4.4	13
118	Challenges in the production of sustainable fuels from pyrolysis oil – Design of efficient catalysts for gasification of char. Applied Catalysis B: Environmental, 2011, 101, 587-597.	20.2	13
119	Carbon nano-fiber based membrane reactor for selective nitrite hydrogenation. Catalysis Today, 2016, 273, 50-61.	4.4	13
120	Enhanced catalytic activity and stability of nanoshaped Ni/CeO2 for CO2 methanation in micro-monoliths. Catalysis Today, 2022, 383, 205-215.	4.4	13
121	Selective removal of NO2 in the presence of oxygen and NO over Pd/SiO2 catalysts. Applied Catalysis B: Environmental, 2004, 50, 143-151.	20.2	12
122	Desorption of Acetone from Alkaline-Earth Exchanged Y Zeolite after Propane Selective Oxidation. Journal of Physical Chemistry B, 2004, 108, 218-223.	2.6	12
123	Effect of V in La2NixV1â^'xO4+δ on selective oxidative dehydrogenation of propane. Applied Catalysis A: General, 2010, 378, 144-150.	4.3	12
124	Aliphatic Hydrocarbons from Lignocellulose by Pyrolysis over Cesiumâ€Modified Amorphous Silica Alumina Catalysts. ChemCatChem, 2015, 7, 3386-3396.	3.7	12
125	Synergy between dielectric barrier discharge plasma and calcium oxide for reverse water gas shift. Chemical Engineering Journal, 2020, 392, 123806.	12.7	12
126	Effect of zeolite geometry for propane selective oxidation on cation electrostatic field of Ca2+ exchanged zeolites. Microporous and Mesoporous Materials, 2006, 91, 187-195.	4.4	10

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127	Frozen slurry catalytic reactor: A new structured catalyst for transient studies in liquid phase. Applied Catalysis A: General, 2008, 351, 159-165.	4.3	10
128	Pathway Study on Dielectric Barrier Discharge Plasma Conversion of Hexane. Journal of Physical Chemistry C, 2010, 114, 18903-18910.	3.1	10
129	Molecular level insights to the interaction of toluene with ZrO2-based biomass gasification gas clean-up catalysts. Applied Catalysis B: Environmental, 2013, 142-143, 769-779.	20.2	10
130	Partially hydrophobized catalyst particles for aqueous nitrite hydrogenation. Applied Catalysis B: Environmental, 2014, 156-157, 166-172.	20.2	10
131	Study on the catalytic conversion of lignin-derived components in pyrolysis vapour using model component. Catalysis Today, 2016, 259, 381-387.	4.4	10
132	Influence of NO on the Reduction of NO2 with CO over Pt/SiO2 in the Presence of O2. Chinese Journal of Chemistry, 2007, 25, 435-438.	4.9	9
133	Influence of Axial Temperature Profiles on Fe/SiO 2 Catalyzed Nonâ€oxidative Coupling of Methane. ChemCatChem, 2021, 13, 1157-1160.	3.7	9
134	Effect of ethane and ethylene on catalytic non oxidative coupling of methane. Reaction Chemistry and Engineering, 2021, 6, 2425-2433.	3.7	9
135	The influence of water on the oxygen–silver interaction and on the oxidative dehydrogenation of methanol. Journal of the Chemical Society Faraday Transactions I, 1988, 84, 1491.	1.0	8
136	Selective catalytic reduction of NOx with propylene in the presence of oxygen over Co–Pt promoted H-MFI and HY. Catalysis Today, 2003, 84, 139-147.	4.4	8
137	The effect of V in La2Ni1â~'xVxO4+1.5x+δ on selective oxidative dehydrogenation of propane: Stabilization of lattice oxygen. Applied Catalysis A: General, 2010, 385, 14-21.	4.3	8
138	Oxidative Conversion of Hexane to Olefins-Influence of Plasma and Catalyst on Reaction Pathways. Plasma Chemistry and Plasma Processing, 2011, 31, 291-306.	2.4	8
139	Bubble formation in catalyst pores; curse or blessing?. Reaction Chemistry and Engineering, 2018, 3, 826-833.	3.7	8
140	Promoting Li/MgO Catalyst with Molybdenum Oxide for Oxidative Conversion of n-Hexane. Catalysts, 2020, 10, 354.	3.5	8
141	Minimizing carbon deposition in plasma-induced methane coupling with structured hydrogenation catalysts. Journal of Energy Chemistry, 2021, 58, 271-279.	12.9	8
142	Effects of BrÃ,nsted acidity in the mechanism of selective oxidation of propane to acetone on CaY zeolite at room temperature. Journal of Catalysis, 2005, 232, 411-423.	6.2	7
143	Evaporation of pyrolysis oil: Product distribution and residue char analysis. AICHE Journal, 2010, 56, 2200-2210.	3.6	7
144	Selection of mixed conducting oxides for oxidative dehydrogenation of propane with pulse experiments. Applied Catalysis A: General, 2011, 391, 70-77.	4.3	7

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145	Recycling Strategy for Bioaqueous Phase via Catalytic Wet Air Oxidation to Biobased Acetic Acid Solution. ACS Sustainable Chemistry and Engineering, 2020, 8, 14694-14699.	6.7	7
146	N-isopropylacrylamide polymer brushes alter the micro-solvation environment during aqueous nitrite hydrogenation on Pd/Al2O3 catalyst. Journal of Catalysis, 2021, 402, 114-124.	6.2	7
147	An X-ray photoelectron spectroscopy study of the influence of hydrogen on the oxygen–silver interaction. Journal of the Chemical Society Faraday Transactions I, 1987, 83, 3161.	1.0	6
148	Reduction of NO ₂ in Flue Gas by CO and Propylene over CuO eO ₂ /SiO ₂ in the Presence of O ₂ . Chinese Journal of Chemistry, 2008, 26, 1035-1040.	4.9	6
149	Enhanced transport in Gas-Liquid-Solid catalytic reaction by structured wetting properties: Nitrite hydrogenation. Chemical Engineering and Processing: Process Intensification, 2020, 148, 107802.	3.6	6
150	Proton shuttling flattens the energy landscape of nitrite catalytic reduction. Journal of Catalysis, 2022, 413, 252-263.	6.2	6
151	Development of a transient response technique for heterogeneous catalysis in the liquid phase, Part 1: Applying an electrospray ionization mass spectrometry (ESI-MS) detector. Journal of Catalysis, 2008, 257, 244-254.	6.2	5
152	The effect of potassium addition to Pt supported on YSZ on steam reforming of mixtures of methane and ethane. Applied Catalysis A: General, 2009, 362, 88-94.	4.3	5
153	Influence of thin film nickel pretreatment on catalytic thermal chemical vapor deposition of carbon nanofibers. Thin Solid Films, 2013, 534, 341-347.	1.8	5
154	Initiation of Carbon Nanofiber Growth on Polycrystalline Nickel Foam under Low Ethylene Pressure. ChemCatChem, 2018, 10, 3107-3114.	3.7	5
155	Technoeconomic Evaluation of the Industrial Implementation of Catalytic Direct Nonoxidative Methane Coupling. Industrial & Engineering Chemistry Research, 2022, 61, 566-579.	3.7	5
156	Development of a transient response technique for heterogeneous catalysis in liquid phase, Part 2: Applying membrane inlet mass spectrometry (MIMS) for detection of dissolved gasses. Journal of Catalysis, 2008, 257, 255-261.	6.2	4
157	The influence of over-stoichiometry in La2Ni0.9V0.1O4.15+δ on selective oxidative dehydrogenation of propane. Catalysis Today, 2013, 203, 17-23.	4.4	4
158	Tailoring of free standing microchannels structures via microtemplating. Materials Research Bulletin, 2011, 46, 505-511.	5.2	3
159	Influence of reaction parameters on the attachment of a carbon nanofiber layer on Ni foils. Surface and Coatings Technology, 2012, 206, 3366-3373.	4.8	3
160	<i>Inâ€situ</i> ATRâ€IR Spectroscopy Reveals Complex Absorptionâ€Diffusion Dynamics in Model Polymerâ€Membrane atalyst Assemblies (PCMA). ChemCatChem, 2022, 14, .	3.7	3
161	Pt/SiO2 catalyst preparation: high platinum dispersions by using low-temperature treatments. Studies in Surface Science and Catalysis, 2006, 162, 529-536.	1.5	2
162	Publisher's Note: How water droplets evaporate on a superhydrophobic substrate [Phys. Rev. E83, 026306 (2011)]. Physical Review E, 2011, 83, .	2.1	1

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163	Non-Conventional Oxidation Catalysis. ChemInform, 2005, 36, no.	0.0	0
164	Preparation of Thin Porous Silica Foam on Alumina Disk Substrate. Catalysis Letters, 2006, 106, 49-53.	2.6	0
165	Heterogeneous Catalysis. , 2017, , 15-71.		0
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